### GGCACGAGTCGGAGCCGGG

# 

	12	24 72	44	64 192	84 252	104 312	124 372	144 432
	E GAG	A GCG	_ ACC	A GCC	م 200	P €CA	D GAT	A GCT
	666 (	K AAG (	999	A GCC	S AGC	STCT	× §	I
3	P CCG (6	A GCC /	A GCA (	A GCC	s AGC	۳ ې	D GAT	S
5	M ATG (	A GCG (	م کی	A GCG	AGG	St.5	ACT ACT	٧ GTT
		E GAG (	A G G G	A GCT	8 8 8	AAG	₽CA	E GAA
	0000	G GGA (	. A GCG	A	8 8 8	A GCG	V GTA	CAG
מפאפ	CAAG	9 999	A GCG .	٦ 26	S C G C	A GCC	A AA	P CCT
9 - -	\CGG^	E GAA (	V GTC (	9 9	٩ )	Q CAG	E GAA	ر 70
Add	iGGGA	O CAG (	A GCG (	R GA	Y TAT	م 2	I ATA	A GCC
) J	ragggggacggacaagccccc	D GAC (	E GAG (	D GAC	E GAG	Q CAG	၁ ၂၅	S TCT
1 GAG	\GGG(	O CAG (	P CCT	ح 66	A GCC	CAG	L CTA	D GAT
AGAG	ACT/	O CAG (	۵. کې	G GGT	K AAG		L CTC	D GAC
5	TAG	E GAG (	٦ 99	G GGA	R AGG	م 2	SG A	E GAA
GCAG	CGCC	ر وي وي	o &	A A G G	S C G G	V GTC	٩ 200	GAA GAA
igAGC	TCCC	ص 200	o 8	L CTG	8 00 00	D GAC	S AGT	E GAG
AGAG	)080	R AGA	<sup>۵</sup> کی	V GTG	S 700	٩ 22	K AAG	ΑĄ
iGGA	SCCT(	g	E GAG	ح 50	v GTG	P CCT	K AAG	GAA GAA
9999	))))	E GAG (	E GAG	S AGC	A GCT	R AGG	ය ගියර	GAA GAA
)GGG/	YEGY	E GAA (	۹ 000		GCA GCA	A GCC	Q CAG	P CCC AAG
CGGAGGGGAGGGGG	GCCGAGGYCGCCGC	T ACG (	A GCT		A GCC		V GTT	۳ ې

#### FIG. 1A

164 492	184 552	204 612	224 672	244 732	264 792	284 852	304 912	324 972
D GAT	S TCA	9 860	I ATA	CCA SCA	V GTG	CCA	X &	CAT CAT
R CGT	A A G	G GGT	E GAG	ACC	×₩	P CCT	AGA	A GCC
H CAT	၁	P CS	E GAG	GA GA	I ATT	E GAA	R AGG	
SGC (	ATT	S TCT	Б В¥	R AGG	E GAA	E GAG	X &	V GTC
S TCT (	CTC	CAG CAG	S AGT	E GAA	K AAG	D GAT	٩ )	T ACT
> <u>LT</u>	CAG	H CAT	I ATC	٦ ∏A	K AAG	E GAG	J TA	. GGA
S TCT (	L TTG	E GAG	JA	CAC H	E GAG	R AGA	. R CGT	с Тат
+CA -	S	E GAA	M ATG	م 2	K AAG	I ATT	P CS	G GGA
R AGG /	GGT .	ය ගියිA	E GAG	Α¥	E GAG	GAA	S AGT	E GAA
S AGT /	ACC (	> GTT	GAA GAA	≺ TAC	GAA GAA	N AAT	×₹	M ATG
S AGT /	AAG	D GAT	E GAA	ACC	A &	E GAG	GAC	GAG
R	S 700	Y TAT	E GAG	E GAG	V GTA	E GAG	D GAT	с ТGT
W TGG	R CGG	D GAT	E GAG	D GAT	A AAG	E GAA	ΑĄ	R CGT
ეფ	S	7 E	E GAG	R AGA	GGG	× &	S GA	V GTC
8 9 9	S AGC	o &	E GAA	9 S	s TCA	V GTG	AGA	Y TAT
S AGC	S. GA	D GAC	E GAG	D GAT	× &	E GAG	AGA	CAG
۳ کک ح	Acc	ACA T	Б ВА	D GAT	R AGA	V GTG	G GGA	I ATC
			a GGT	×\	S S S	E GAG		
_			S AGT		CCA			
			ATT			GAA	R AGG	K AAG

#### FIG. 1B

484 [452 504 464 404 [212 424 1272 444 1332 364 092 384 152 344 032 3CC , T 2 7 S AGC I ATC A GCA ×\\ 2 2 3 3 ၁ <u>ဩ</u> D GAC A GCT L CTG D GAT E 3AG S AGT A 25 > 12 လည υŞ CAT Α¥ 75 C TGT HA ΑÅ ΥĀ ^ AG A SCT 0 <del>§</del> ×₩ E 3AG Z S F C ×≸ ¥ ~ 8 E GAG P SS ထ ည် ٦Ł AAG E SAA S S S S S ΑĞ ٦ 51 A A C 1 5 a SS A TG 4 E A SCA JE S S S λŘ T ACT ٩ 2 H ×₹ I ATT A AG 08 A GCT 75 ල ල ×≸ E 3AG L CTG ¥ 766 E SAG ၁ <u>T</u>a \_ П ⊼À g GGC ۷ GTG L TG م <u>ک</u> N AAT H K 98 7.AT ဗ္ဗဗ္ဗ E 3AG I ATC Б¥ ACT C TGT - E S 0 J F I ATC P 73 D GAT 7 E CAC T S TCT R 466 С ТаТ Z Z Z N AAT T ACA ۳ ا SCA SCA CAC 1 H T. ATC ×≸ ₽ E A A C GC S AGC S -1 F3 Y TAT M ATG 1 | 75 ACC 4 STCT ¥¥ s E S H 8 2 2 8 o \{ D SAT ~ & SCA SCA I ATC 98 S S шE E SS ± X ထ ထို့ SAG AAG 75 V GTG С Т<u>а</u>Т တည် 80  $^{\circ}$ 08 ≺ TAC Ser A S ACT A D SAT A GCA လည PAT A ٦<u>۲</u> A GCA ωŞ 7 7 ဗ ဗ္ဟ 7. CTG u E ΥĀ H \$ S 55 V GTG SCA SCA N TAT ۳ <u>۲</u> H SAT සි ය S S H X > STA 98 34C H S N X ۳ S H A ၁ မျှ 교당

#### FIG.1C

544 1632 524 1572 564 1692 570 1761 1791 GAA ¬ ACT D GAT S D S A G P \* TCA GAC TCT GCC GGA CCT TAG TGGACAGGAGACTTGGGGCATGGGACAGCTCAGACTTTGTATTTAAAAGT ACG GGC E GA ය ගියි I ATT ය යියි L CTG S AGT S AGT > FB င TgC s AGC T T E ACC ACA GAG ( 7AC GGC S TCA AAG GGA A GCT S TCA > GTG . GGТ M ATG чE . GGG I ATC L CTC I ATA E GAA K AAG D GAT A GCT . 666 TAAAAAGGACAAAAAAAAAAAAAAAA STCA E GAA D GAT N AAC L TTA A GCT M ATG L CTG M ATG CTA L CTG > L S Agc Agc L CTG E G GAA GGG E GAG V GTG G A A G

#### FIG. 1D

GCACGAGCGGAGAGCCGCGCGGGGCCGCGGGGGTGGGGCAGCCGGAGCGCA

ഗ്ര	ပ္ပ
GGCCCCCGATCCCCGGGGGGGCCCCCGGGGCGCGCGCGCCCCGGGCTTCCGGGAAGACTGGCGATGCCACGGAGGG	ccctcaaaccaccaccaccactactaccaaacccctacta

0 9	22 66	42 126	62 186	82 246	102 306	122 366
TTC	E GAG	A GCG	L CTG	A GCC	A &	გ ე
M ATG	<del>م</del> 990	999	၁ ၁၉	ල	A AG	T ACG
၁ဗ	ဗ္ဗ	GAA	ာ ၁၉	A GCG	٦ در	999
၁ဗ၁၁၁၁ဗ၁	۵ کی	ය ශීර්	G GGA	A GCC	۷ GTG	9 990
CCTC	A GCG	R CGG	A GCT	CCA	s TCG	ه 5
GCCT	R CGT	L CTG	R AGG	٩ 000	CAC	S 77
CCTC	S AGC	E GAG	ය ශිර	CAC	T ACG	E GAG
TTCT	R AGG	ල	<sup>අ</sup>	م 20	CTC	V GTG
ACTT	™ TGG	ი მვგ	ල	CAT	A GCG	A GCC
AACG/	 CTC	G GGA	g gc	CAC H	K AAG	Q CAG
TAGCAGGCAAACGA(	R CGT	G GGA	9 990 900	CAC	L CTG	L CTC
AGCA	8 8 8	GGT	GGT	G GGT	D GAT	L CTG
CTT)	V GTC	G GGA	A GCC	× &	A GCG	L CTG
CGCT	CTC	6 666	ი მმმ	A GCC	E GAG	E GAG
CATCATGTTCGCT	A GCG	A GCA	H CAT	G GGT	A GCC	L CTG
ATCA	STCT	9 880	A GCG	R CGA		Q CAG
4AAC,	CGA	E GAG	CGA	v GTG		8 8 8
4AAG,	X &	E GAG	S AGC	A GCG	A GCC	E GAG
CGACTCACAAAGAAA	T ACC /	E GAG	D GAC			K AAG
CGAC.	R AGG		ACG		9 9 9	L CTG

#### FIG.2A

#### FIG. 2E

322 966	342 1026	362 1086	382 1146	402 1206	422 1266	426 1278			
S D N K S Q L V Q K V R S K I G C G I Q: TCG GAC AAC AAG AGT CAG CTG GTG CAG AAG GTG CGG AGC AAA ATC GGC TGC GGC ATC CAG	T R E V D G V W V Y N R S S Y P I F I ACG CGG GAG GTG GAT GGT GTG TGG GTG TAC AAC CGC AGT TAC CCC ATC TTC ATC	S A T L D N P D S R T L L V H K V F P TCC GCC ACA CTG GAC ACC T GC TCC AGG ACG CTG TTG GTA CAC AAG GTG TTC CCC	F S I K A F D Y E K A Y S L Q R P N D TTC TCC ATC AAG GCT TTC GAC TAC GAG AAG GCG TAC AGC CTG CAG CGG CCC AAT GAC	E F M Q Q P W T G F T V Q I S F V K G GAG TTT ATG CAG CCG TGG ACG GGC TTT ACC GTG CAG ATC AGC TTT GTG AAG GGC	G Q C Y T R Q F I S S C P C W L E V I GGT CAG TGC TAC ACC CGC TAC AGC AGC TGC CCG TGC TGG C:TA GAG GTC ATC	N S R * AAC AGC CGG TA(	GCTAATATTTTCCTCCTGAGTGCTTGCTTTTCATGCAAACTCTTTGGTCTTTTTTTT	TCTTCTCGTCCTCGTTTGTGTTCTGTTTTGCTCTTTGAGAAATAGCTTATGAAAAGAATTGTTGGGGGGTTTTTT	TGGAAGAAGGGGCCAGGTATGATCGGCAGGACACCCTGATAGGAAGAGGGGAAGCAGAAATCCAAGCACCACCAAACACA

FIG.2C

CTGTTCTTAGCTCAATGAGCATGTTTAGACTTTAACATAAGCTATTTTTCTAACTACAAAGGTTTAAATGAACAAGAGA GAAAAAAGACGTTTTATGTTATATATATATATTATTACTTGTAAATATAAAGACGTTTTATAAGCATCATTATTA GCCAGCAAGCGGGGATGTCCCTGGGAGGGACATGCTTAGCAGTCCCCTTCCCTCCAAGAAGGATTTGGTCCGTCATAAC TCCCAGCAGCTGCCAGGAGCACGGCTCTGTCCCCAGCCTGGGAAAGCCCCTGCCCCTCCTCCTCCTCATCAAGGACACG GECCTGTCCACAGGCTTCTGAGCAGCGAGCCTGCTAGTGGCCGAACCAGAACCAATTATTTCATCCTTGTCTTATTCC GTCCCAAGCGGTGTCTCTCCTGCCCCTTGGACACGCTCAGTGGGGCAGAGGCAGTACCTGGGCAAGCTGGCGGCTGGGG GTGCAGGAGCGGCAGATGGGGAGACAACGTGCTCTTTGTTTTGTGTCTCTTATGGATGTCCCCAGCAGAGAGGTTTGCA 

#### FIG.2D

CAAATTAAAAAGATAAACACAAGATTGGTGTTTTTTCCTATGGGTGTTATCACCTAGCTGAATGTTTTTCTAAAGGAG 

FIG.2E

## GGCACGAGGTTGCCCTGGCGGAGCAGACAGGCCCTCGGGGTGGAGGTC

10 30	90	50 150	70 210	90 270	110	130 390	150 450
L CTA	D GAC	D GAT	⊤ ACC	K AAG	AAG	D GAT	L CTT
D GAC	I ATA	T ACT	7F	N AAT	K AAG	> FE	™ TGG
C TGT	A AG	≺ TAC	a GGA	E GAG	g GGA	N AAT	999
ZAC _	V GTC ,	A GCT	Υ TAT	™ TGG	ACA	s AGT	E GAA
T ACG 1	M ATG (	H CAT	AAC	S TCT	N AAC	ය ගිය	A DE
P CCA A	ر وور	GGT	c TGT	I ATC	۹ 200	V GTT	A GCC
ACA (	ч E	S TCT (	V GTC	E GAA	V GTA	S AGT	ا 176
N AAC A	ဗ ၂	T ACT	AAG	ACA	чE	чE	۷ GTG
C TGT A	Y TAT (	STCT	Y TAT		I ATA	c TGT	A GCT
M ATG 1	6 GGA	чE	¥ ¥	L CTA	ACC	D GAT	W TGG
	A A	ЖА	¬ ACC	T ACT	D GAT	۸ 9	6 660
TCTAAGAT	AAC /	V GTG	GAA	NAAT	7 E	A A	Y TAT
Ě	F TC )	g GGA	L	D GAC	ACT	Y TAT	I ATC
\GATI	V GTC -	S AGT	AAC	T ACA	L CTG	S 700	ACC
GAGAGAGA	D GAT (	c TGT ,	၁ဗ္ဗ	N AAC	¥ ¥	A GCC	CCA
CTG/	X AAG (	S TCT	STCA	™ TGG	٦ ٦٦	A AG	G GGA
1GAGC		AAG.	GCA GCA	A A A	G GG	L TTG	S TCT
XTA	A GCT (		¥ ¥		E GAA		<u>u</u>
ÎT TE	K AAG 0					966	D GAT
TTTGGTTTCATAAGAG	G GGA A					_	_

#### FIG.34

170 510	190 570	210 630	230	250 750	270 810	283			
A G Y Q M S F D T A K S K L S Q N N F A 1. GCT GGC TAT CAG ATG AGT TTT GAC ACA GCC AAA TCC AAA CTG TCA CAG AAT AAT TTC GCC 5	L G Y K A A D F Q L H T H V N D G T E F 1 CTG GGT TAC AAG GCT GCG GAC TTC CAG CTG CAC ACA CAT GTG AAC GAT GGC ACT GAA TTT 5	S I Y Q K V N E K I E T S I N L A W TCT ATC TAC CAG AAG GTG AAT GAG ATT GAA ACA TCC ATA AAC CTT GCT TGG	A G S N N T R F G I A A K Y M L D C R GCT GGG AGT AAC AAC ACC CGT TTT GGC ATT GCT GCT AAG TAC ATG CTG GAT TGT AGA	S L S A K V N N A S L I G L G Y T Q T TCT CTC TCT GCT AAA GTA AAT AAT GCC AGC CTG ATT GGA CTG GGT TAT ACT CAG ACC	P G V K L T L S A L I D G K N F S A CCA GGA GTC AAA TTG ACT TTA TCA GCT TTA ATC GAT GGG AAG AAC TTC AGT GCA	G H K V G L G F E L E A * . GGT CAC AAG GTT GGC TTG GGA TTT GAA CTG GAA GCT TAA TGTGGTTTGAGGAAAGCATCAGA	TTTGTCCCTGGAAGTGAAGAGAAATGAACCCACTATGTTTTGGCCTTAAAATTCTTCTGTGAAATTTCAAAAGTGTGAA	CTTTTTATTCTTCCAAAGAATTGTAATCCTCCCCACACTGAAGTCTAGGGGTTGCGAATCCCTCCTGAGGAAGACGCTT	GAAGGCATGCCTGGAAGTTGTCATGTTTGTGCCACGTTTCAGTTCTGAAGTGTTTATTAAATGTGTTCCTCAGCG

#### FIG.3E

ACAGTGTAGCGTCATGTTAGAGGAGACGATCTGACCCACCAGTTTGTACATCACGTCCTGCATGTCCCACACACTTTTT

TCATGACCTTGTAATATACTGGTCTCTGTGCTATAGTGGAATCTTTGGTTTTTGCATCATAGAAATAAAATAAACCCA

TCACATTTGGAACATAAAAAAAAAAAAAAAAAA

FIG. 30

20	40	60 180	80 240	100 300	120 360	140 420	160 480	180 540
٩ )	T ACA	CAC	N AAC	A GCC	I ATC	Q CAG	G GGA	H CAT
F 5	999	۳ ک	I ATT	A GCA		γ TAT	S .TCA	م 200
L CTC	င 76C	E GAA	9 990	JA	L CTG	۷ GTC	F	X AAG
T ACT	c TGC	6 GGA	V GTT	T ACT	999	ССТ	чE	E GAA
۷ GTC	م 200	L CTC	чE	ا 176	L CTT	N AAT	I ATA	P
N AAT	م <u>کی</u>	CAC	> FI	S 55	و وور	, ∀ TAT	c TGT	٧ 1
R AGG	V GTC	S AGT	A GCA	L CTG	S AGT	v GTG	Р ССТ	G GGT
O CAG	₩ 766	D GAC	I ATA	CAG	AGA	L CTC	CTC	M ATG
I ATC	™ TGG	I ATC	ာည	V GTC	S 700	4	₩ 766	A GCT
CAG	A GCC	c TGT	გ ე	N AAT	R GT	Q CAG	s TCT	L
L CTG	s 55	д ССС	M ATG	N AAT	D GAT	7 ACG	R CGT	Q CAG
L CTG	s 700	Y TAC	V GTC	A. GCC	чE	I ATC	I ATT	R CGA
AAC	4 E	L CTG	S AGT	ч E	ACA ACA	L CTG	Υ TAT	G GGA
L CTC	I ATC	L CTA	A GCC	D GAT	₩ TGG	T ACG	7 CH CH CH	I ATA
V GTG	7 ACC	ე ეფე	₩ TGG	J TTG	™ TGG	A GCT	F TC	AAC
L CTG	A GCC	٧ 517	E GAA	¥¥	7 E	L CTA	D GAT	999
A GCC	I ATC	V GTT	R AGA	A GCT		чE	P CS	V GTG
L CTA	۷ GTG	A GCT	K AAG	S AGT	ا 176	A GCT	S 700	T ACG
S AGC	E GAG	A GCT	чE	A GCC	s TCT	I ATA	ACA ACA	v GTC
T ACG	E GAG	A GCA	A AA	CAC	L CTA	T ACC	Y TAT	9 980

#### FIG.4A

182 546

> AGGTTGATGGTGCTTAACAAACATGAAGTATGGTGTAATAGGAATAATATTTTATCCNAAAGATTTTTAAAAATAGGGCT S D \* AGT GAT TGA GTCTTCAAAACCACCGATTCTGAGAGCAAGGAAGATTTTGGAAGAAAATCTGACTGTGGATTATGAC AGTCTAGAATAGGGAGGTGGAGAATGATGACTTACCCTGAAGTCTTCCCTTGACTGCCCGCACTGGCGCCTGTGTGTC AAAGATTATCTTTTTCTTAAGTAATCTATTTAGATCGGGCTGACTGTACAAATGACTCCTGGAAAAAAACTCTTCACCT

FIG.4B

#### FIG.5A

1228	CAAATTAAATTTACTGTCAAAAAAAAAAAAAAAAAAAAA
1182	TGGCTGCGAGGTAGAGGGTTGGGGGGTTGGTGGGCTGTCACGGAGCGACTGTCGAGATCGCCTAGTATGTTCTGTGAACA
1103	TCTACTGTGTGAGACTTCGGCGGACCATTAGGAATGAGATCCGTGAGATCCTTCCATCTTCTTGAAGTCGCCTTTAGGG
1024	GTCCCGGCTGGGATGAAGTCTGGTGGTGGTCGTAAGTTTAGGAGGTGACTGCATCCTCCAGCATCTCAACTCCGTCTG
945	GTGGGACTGGTGGAAGCAGGACACCTGGAACTGCGGCAAAGTAGGAGAAATGGGGAGGAGCTCGGGTGGGGAGGAC
866	ATATTTATTTTAACTTATGCAAGGGTGTGAGATGTTCCCTCTGCTGTAAATGCAGGTCTCTTGGTATTTATT
787	TAATTTATTTCTTATTGCTCCTAATTAATATTTTATGTATTTTATGTACGTCCTCCTAGGTGATGGAGATGTGTACGTA
708	AGGCGCACAGAGACCGAGGCGCATAGAGACCGAGGCACAGCCCAGCTGGGGCTAGGCCCGGTGGGAAGGAGGGCGTCGT
629	TCCCCAACTGGGACTTCCGAGGCAACTTGAACTCAGAACACTACAGCGGAGACGCCCACCCGGTGCTTGAGGCGGGACCG

#### FIG. 5E

1016	CCAAAACGTGCTACAACATGGATGAACTTCGATGACTTTGTGCCACATGAAAGAAGAAGCCAGCC
937	CTGATAAATGGATAAATGAAATATGGTACGTCCGAAGAATGGAATATCATTCACCCTGAAAAAAGAACGAAGTCCAGCA
858	SECTGATTGTTACCCAGTAGTGTTGATAGCACATTATTCATAACAGCCAAGAGGAAGCAACCCAAATGTCCATTAG
779	FGCCCACCTTGCCCACCTGAGGTAATGCCCTGGGGCTCCACCAGTCCAGATCCACAGGGCGCAGCCATGTGGGAGTGGC
700	SGAGTGGACAGAGGGCCTGGTGGCAGCTCACAGTTTCTTTTCTGACCTTTGGTCTCACCCACC
621	STGTTAAAGTTTAGAGCAAATTGGTTATTTTTAAAATCAATAAAACTTTTAAAAGTACTAAGACAACTTCTAAGAGG
542	TTCTGTCTCCCTCTTTTTTTTTTTCTCTCCCTACCAGGTCCACTTCTTTCAGAGGGGCCTGCGGTGCTCTAAAAGTTCTC
463	TCTGCAGGAAGTTGGAGGAGATTCCTGAAGTTGATTCCTCAGGCTGGATGTCCAAGGGGGGTTGGAGTTTCTGATGTCT
384	AGTACCCCCTGGGGGCTAACCAGAGGCATGCCTGGGCTGAGCTGAACCTTCTGGTGCACTGGCCCCTGGCTGACTGCTC
305	TGAAACTTTGCCAGGCACTGGGAGAGGCTGTGAACTCTTTTCTGGCTTTAGAATTTAGGTCTAGATCCCAAAAGGCTA
226	ICAACCCGGGAGGCATGTTGTTTTCCTAAGCAAGATGCTGAGCTGGAAAGATGGGGGTGTAAGGTAATGTCCCAAA
147	GTTCTGGGGGCAGGAAGGACGGGCACTCAGGAGGCCCCCTCCCCATCCACAGCCCCTCTTTGGGAGGGGGGAAACTTG
89	GAATTCGGCACGAGGMCAGGAGCTCCTTTWCTGCGTCTCCCATCATGGGGCTTAGGGTTGAGTCTTCA

#### FIG.6A

176 1559 156 1499 116 379 136 1439 96 .319 56 1199 76 1259 36 1139 16 1079 S AGC <u>م</u> 25 7,53 ΑÅ 7 7 7 ₩ 766 S S S **⊢** \$ ۳ ک ACG I ATC E GAG 7₹ လည် ۳ <del>۲</del> SAG ΑÅG <del>م</del> 52 OAT O A Si Sagge ъ¥ ٣ 8 S 55 > S E 3AG လူ ဗိုင V GTC V GTG යි ය ကည L CTG L AAC N ဗ္ဗ A 3CC s Agc 76 <del>م</del> 22 N AAC L CTG N STC <sup>م</sup> 55 ပည Q SAG D SAT A CT L CTC I ATC 7 5 D GAC م <u>ي</u> ACT ACT w TGG ا 37 ဗ္ဗ CAG I ATC ≺ TAC I ATC SAC ۵ X F 34G ۳ 2 ΑÅ යි F T > GTG ٦ 5 S AGC I \TA ∧ AG CAC 2 ا A GCG L CTG ල ح 200 7¥ Z 255 <u>م</u> 23 I ATC E GAG ၁ဥဌ AAC AAC Y TAT AAG E 3AG ×₹ A A G 7 5 990 STC ACC A ۲ ک ک 75 ညီ ဇာ D SAC S AGC SGC 7. 27.6 ٦ 0 ရှင် ၁၅၄ A GCT A SCC ~ S က ည AAC s AGC A SS ය ශීර age D E 3AG ٩ <u>۲</u> 4g R ₹ 7 406 ACG > STG සි ය ~ S ۳ S က္ကည S C C A A S & 8 00 00 o G ဗ္ဗင္လ ₽ BA S TOT L  $\overset{\mathsf{M}}{\mathsf{ATG}}$ T ACT R CGG 7G 2G ဗ္ဗ ⊣ ACG P M ATG **ATTGTATGAAATGAA** ۳ 26 V GTG S TCT TAC ۷ GTG ۵ کی 7 S 20 L SAGC D GAC S 50 A A SCG ය ය STCT A GCC EAC H 7¥ 7¥ E 3AG <mark>1</mark> П a A C E 3AG 380 م 2 3

#### FIG.6B

V F D F E R S G L Q H A P E P D A A D G GTG TTC GAC TCG GGC CTG CAG CAC GCG CCC GAG CCC GAC GCC GCC GGC	196 161
P Y D P N S V R I S F A K G W G P C Y S CCC TAC GAC CCC AGC GTC CGC ATC AGC TTC GCC AAG GGC TGG GGG CCC TGC TAC TCC	216 1679
R Q F I T S C P C W L E I L L N N P R • CGG CAG TTC ATC ACC TCC TGC TGG CTG GAG ATC CTC CTC AAC AAC CCC AGA TAG	236 1739
TGGCGGCCCCGGCGGGGGGGGGGGGGGGCGGCGGCCACCGCCACCTGCCGGCCTCGAGAGGGGGCCGATGCCCAGA	1818
GACACAGCCCCCACGGACAAACCCCCCAGATATCATCTACCTAGATTTAATATAAAGTTTTATATATA	1897
ATATATTATACTTGTAATTATGGAGTCATTTTTACAATGTAATTATTTAT	1976
ACAAGAAGACGCACTTTGGCTTATAATTCTTTCAATACAGATATATTTTTCTTTC	2055
TTTTATATATATATAAAGAAAATGATACAGCAGAGCTAGGTGGAAAAGCCTGGGTTTGGTGTATGGTTTTGAGATA	2134
TTAATGCCCAGACAAAAAGCTAATACCAGTCACTCGATAATAAAGTATTCGCATTATAGTTTTTTTAAACTGTCTTCT	2213
TTTTACAAAGAGGGGCAGGTAGGGCTTCAGCGGATTTCTGACCCATCSTGTACCTTGAAACTTGACCTCAGTTTTCAAG	2292
TTTTACTTTTATTGGATAAAGACAGAACAAATTGAAAAGGGAGGAAAGTCACATTTACTCTTAAGTAAACCAGAGAAAG	2371

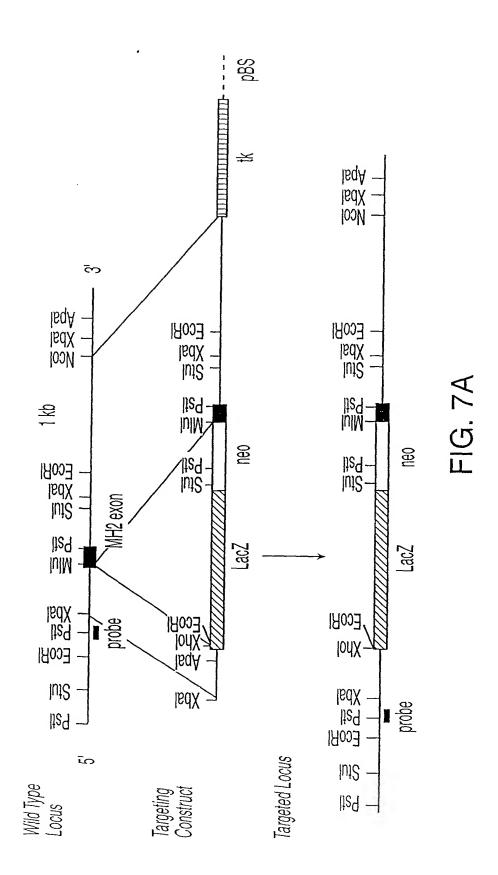
#### FIG.6C

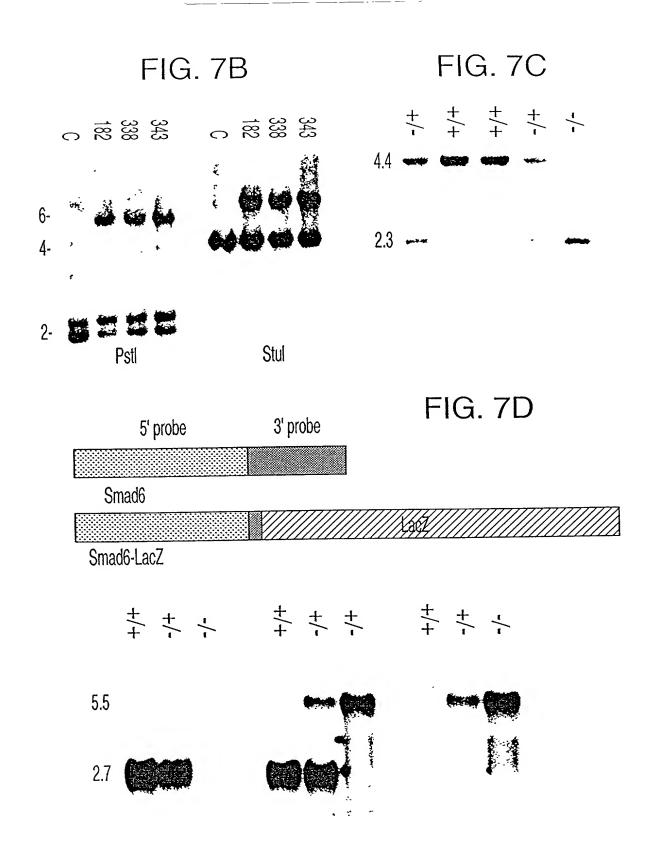
308	TGAGAAGTCCTGTGTATTATCTCTTGCTGCATAATAAATTATCCCCAAACTTAAAAAAAA
300;	TCCTTGGCCAGATAACTAAGAGGAATGTTTCATTGTATATCTTTTTTTT
292	AGAAGTTACATGGAATTGTAGGACCAGAGCCATATCATTAGATCAGCTTTCTGAAGAATATTCTCMAAAAAAAAAGAAAGTC
284!	GTITATITCTACTITGTAAAAGGGAAAAGTTGAGGTTCTGGAAGGATAAATGATTTGCTCATGAGACAAAATCAAGGTT
276(	TATTTCCCACCCCCAGCCAAAAATAGCTCAGAATCTGCCCATCCAGGGCTGTATTAATGATTTATGTAAAGGCAGATG
2687	GAAATGGGCCTTGAGCCCACCTGCTACCTTGCAGAGAACCATCTCGAGCCCCGTAGATCTTTTTAGGACCTCCACAGGC
2608	CCATCTTTGAGTTATGAGCAAGCTAAAAGAAGAACACTATTTCTCACCATTTTGTGGAAATGGCCTGGGGAACAAAGACT
2529	CCATITATCCTGGACAAGCTCTTCCAGTCTGATGGAGGAGGTTCATGCCCTAGCCTAGAAAGGCCCAGGTCCATGACCC
245(	TTCTGTTGTTCCTTCCTGCCCATGGCTATGGGGTGTCCAGTGGATAGGGATGGCGGTGGGGAAAAGGAGAATACACTGG

#### FIG.6L

 $\Omega$ 

3083





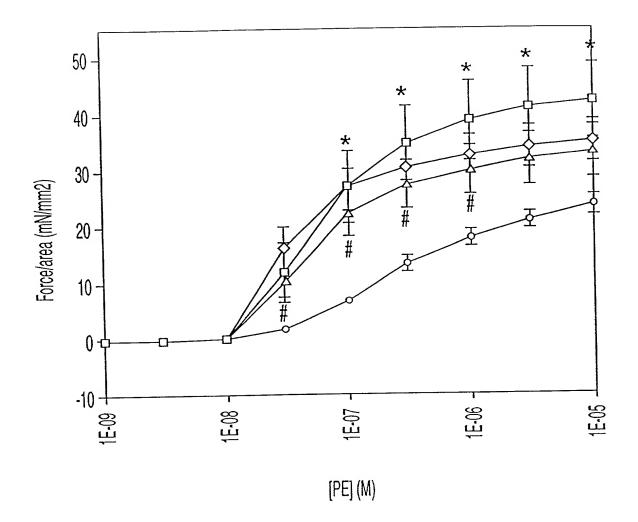


FIG. 8

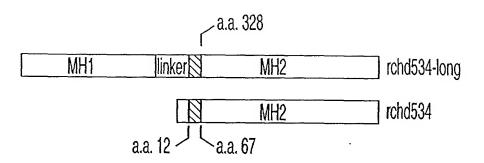


FIG. 9

#### ACGAGGACAGGCTGTGCGCGGTCTGCACGGCGCTCCGCGGCGGAGCTTCATGTGGGGCTGCGACCCGCGCAGCCGG 79

М 1 CCCCTCGCTGAGGGAACGGACCCCCGGTAACCGGAGACCGCCTTCCCCCCCACCCCTGGCGCCAAAGGATATCGT ATG 157 21 R R S TTC AGG TCC AAA CGC TCG GGG CTG GTG CGG CGA CTT TGG CGA AGT CGT GTG GTC CCC GAC 217 S Ε D G S G 41 G D G G G S G R 277 61 E G G G С G Α R R R CGA GCT GAG CCG GCC CCG CGG GCA AGA GAG GGC GGA GGC TGC GGC CGC TCC GAA GTC CGC 337 81 ٧ G Q R G R D R R CCG GTA GCC CCG CGG CCC CGG GAC GCA GTG GGA CAG CGA GGC GCC CAG GGC CCG GGG 397 101 Ε G P R AGG CGC CGG CGC GCA GGG GGC CCC CCG AGG CCC ATG TCG GAG CCA GGG GCC GGC GCT GGG 457 121 G E G G AGC TCC CTG CTG GAC GTG GCG GAG CCG GGA GGC CCG GGC TGG CTG CCC GAG AGT GAC TGC 517 141 G S Ε R F GAG ACG GTG ACC TGC TGT CTC TTT TCG GAG CGG GAC GCC GCC GCC GCG CCC CGG GAC GCC 577 Ε Α 161 G S G G Ε AGC GAC CCC CTG GCC GGG GCC GCC GTG GAG CCG GCG GGC GGC GGG CGG AGT CGC GAA GCG 637 181 K S K T Τ E 0 E L CGC TCG CGG CTG CTG CTG GAG CAG GAA CTC AAA ACC GTC ACG TAC TCG CTG CTG AAG 697 201 Ε Ε S G D Τ L Α E S L K R CGG CTC AAG GAG CGC TCG CTG GAC ACG CTG CTG GAG GCG GTG GAG TCC CGC GGC GGC GTG 757 221 R Α D R 817 241 W G R 0 CCG CAG CTG CTC GGC CGC CTC TTT CGC TGG CCC GAC CTG CAG CAC GCC GTG GAG CTG 877 261 Τ C F C S Α Α Α Н AAG CCC CTG TGC GGC TGC CAC AGC TTC GCC GCC GCC GCC GAC GGC CCT ACC GTG TGC TGC 937 S R 281 R G AAC CCC TAC CAC TTC AGC CGG CTC TGC GGG CCC GAA TCT CCG CCA CCT CCC TAC TCT CGG 997 301 S S S T Υ D L D S D E Υ K Р L CTG TCT CCT CGC GAC GAG TAC AAG CCA CTG GAT CTG TCC GAT TCC ACA TTG TCT TAC ACT 1057

I T Α Р Ε 321 D GAA ACG GAG GCT ACC AAC TCC CTC ATC ACT GCT CCG GGT GAA TTC TCA GAC GCC AGC ATG 1117 K Р S W С S E Н Α Υ R TCT CCG GAC GCC ACC AAG CCG AGC CAC TGG TGC AGC GTG GCG TAC TGG GAG CAC CGG ACG 1177 D Q Α S I F Υ 361 CGC GTG GGC CGC CTC TAT GCG GTG TAC GAC CAG GCC GTC AGC ATC TTC TAC GAC CTA CCT 1237 E G Q L N E Q R S S 381 CAG GGC AGC GGC TTC TGC CTG GGC CAG CTC AAC CTG GAG CAG CGC AGC GAG TCG GTG CGG 1297 F G Ι L S K Ε P D 401 G CGA ACG CGC AGC AAG ATC GGC TTC GGC ATC CTG CTC AGC AAG GAG CCC GAC GGC GTG TGG 1357 Н Ι T 421 GCC TAC AAC CGC GGC GAG CAC CCC ATC TTC GTC AAC TCC CCG ACG CTG GAC GCG CCC GGC 1417 Р Р G Υ K GGC CGC GCC CTG GTC GTG CGC AAG GTG CCC CCC GGC TAC TCC ATC AAG GTG TTC GAC TTC 1477 0 Н Α Р E Α D 461 GAG CGC TCG GGC CTG CAG CAC GCG CCC GAG CCC GAC GCC GAC GGC CCC TAC GAC CCC 1537 S Ι S F Α Κ G W G Р C Υ S R 0 F 481 AAC AGC GTC GCG ATC AGC TTC GCC AAG GGC TGG GGG CCC TGC TAC TCC CGG CAG TTC ATC 1597 C S Р C W L E Ι L L N N Р R 497 ACC TCC TGC CCC TGC TGG CTG GAG ATC CTC CTC AAC AAC CCC AGA TAG 1645 TGGCGCCCCGGCGGAGGGGGGGGGGGGGCCGCCGCCACCTGCCGGCCTCGAGAGGGGCCGATGCCCAGA 1724 AAAAAAAAAAA 1817

FIG. 10B